

What is claimed is:

1. An information search system comprising:
2 a radio portable terminal having a speech
3 communication function and packet communication
4 function; and
5 a center for selectively performing speech
6 communication and packet communication with said radio
7 portable terminal,
8 said center including
9 speech control means for performing speech
10 communication with said radio portable terminal during
11 execution of packet communication by said radio portable
12 terminal.
13 speech recognition means for recognizing a
14 speech signal received by said speech control means and
15 sent from said radio portable terminal,
16 information search means for searching for
17 information on the basis of the speech information
18 recognized by said speech recognition means,
19 speech conversion means for converting the
20 speech information of the information searched out by
21 said information search means into a speech signal and
22 outputting the signal to said speech control means, the
23 speech signal from said speech conversion means being
24 transmitted to said radio portable terminal by said
25 speech control means, and

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26 packet control means for transmitting
27 image/character information of the information searched
28 by said information search means to said radio portable
29 terminal by packet communication.

2. A system according to claim 1, wherein said
2 information search means searches for information
3 through the Internet.

3. A system according to claim 1, wherein
2 said system further comprises a table
3 indicating a relationship between a self-station IP
4 address of said radio portable terminal and a
5 self-station speech communication address, and
6 said speech control means looks up said table
7 when speech communication is started, and notifies said
8 packet control means of a self-station IP address
9 corresponding to the self-station speech communication
10 address of said radio portable terminal which is
11 notified by the calling number identification notifying
12 function.

4. A system according to claim 3, wherein the
2 self-station speech communication address is transmitted
3 from said radio portable terminal to said center by
4 packet communication, and the relationship between the
5 self-station IP address of the packet communication and

6 the self-station speech communication address
7 transmitted from said radio portable terminal is
8 registered in said table.

5. A system according to claim 1, wherein
2 a speech communication address of said center
3 is designated by said center with respect to said radio
4 portable terminal during execution of packet
5 communication by said radio portable terminal, and
6 an IP address of said radio portable terminal
7 which has performed speech communication with said
8 center is acquired by specifying said radio portable
9 terminal from the terminated speech communication
10 address.

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6. A system according to claim 1, wherein said
2 center further comprises communication control means for
3 switching speech communication by said speech control
4 means and packet communication by said packet
5 communication means.

7. A system according to claim 6, wherein
2 said radio portable terminal comprises switch
3 means for alternately switching speech communication and
4 packet communication, and
5 said communication control means performs
6 switching operation in accordance with an output from

7 said switch means.

8. A system according to claim 6, wherein said
2 communication control means automatically performs
3 switching operation under sequence control.

9. A system according to claim 1, wherein said
2 radio portable terminal comprises
3 a microphone to which speech transmitted to
4 said center is input,
5 a speaker for outputting a speech signal
6 transmitted from said center,
7 a display screen on which image/character
8 information transmitted from said center is displayed,
9 and
10 a key operation section for performing
11 dial-input operation.

10. A system according to claim 1, wherein said
2 radio portable terminal comprises
3 radio means for performing radio communication
4 with a base station to which said center is connected,
5 speech communication means for performing
6 speech communication with said center,
7 packet communication means for performing
8 packet communication with said center, and
9 communication control means for switching

10 speech communication by said speech communication means
11 and packet communication by said packet communication
12 means.

11. A radio portable terminal of an information
2 search system for searching for information by
3 selectively performing speech communication and packet
4 communication with a center, comprising:

5 a microphone to which speech transmitted to
6 the center by speech communication is input;
7 a speaker for outputting a speech signal
8 transmitted from the center by speech communication;
9 a display screen on which image/character
10 information transmitted from the center by packet
11 communication is displayed; and
12 a key operation section for performing
13 dial-input operation.

12. A terminal according to claim 11, further
2 comprising:

3 radio means for performing radio communication
4 with a base station to which the center is connected;
5 speech communication means for
6 inputting/outputting a speech signal between said
7 speaker and said microphone by performing speech
8 communication with said center;
9 packet communication means for outputting

10 image/character information to said display screen by
11 performing packet communication with the center; and
12 communication control means for switching
13 speech communication by said speech communication means
14 and packet communication by said packet communication
15 means.

13. A center of an information search system for
2 searching for information by selectively performing
3 speech communication and packet communication with a
4 radio portable terminal, comprising:
5 speech control means for performing speech
6 communication with the radio portable terminal during
7 execution of packet communication by the radio portable
8 terminal;
9 speech recognition means for recognizing a
10 speech signal received by said speech control means and
11 sent from the radio portable terminal;
12 information search means for searching for
13 information on the basis of the speech information
14 recognized by said speech recognition means;
15 speech conversion means for converting the
16 speech information of the information searched out by
17 said information search means into a speech signal and
18 outputting the signal to said speech control means, the
19 speech signal from said speech conversion means being
20 transmitted to the radio portable terminal by said

21 speech control means; and
22 packet control means for transmitting/
23 image/character information of the information searched
24 by said information search means to the radio portable
25 terminal by packet communication.

14. A center according to claim 13, wherein
2 said system further comprises a table
3 indicating a relationship between a self-station IP
4 address of the radio portable terminal and a
5 self-station speech communication address, and
6 said speech control means looks up said table
7 when speech communication is started, and notifies said
8 packet control means of a self-station IP address
9 corresponding to the self-station speech communication
10 address of the radio portable terminal which is notified
11 by the calling number identification notifying function.

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15. A center according to claim 14, wherein the
2 self-station speech communication address is transmitted
3 from the radio portable terminal to said center by
4 packet communication, and the relationship between the
5 self-station IP address of the packet communication and
6 the self-station speech communication address
7 transmitted from the radio portable terminal is
8 registered in said table.

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16. A system according to claim 13, wherein
2 a speech communication address of said center
3 is designated by said center with respect to the radio
4 portable terminal during execution of packet
5 communication by the radio portable terminal, and
6 an IP address of the radio portable terminal
7 which has performed speech communication with said
8 center is acquired by specifying the radio portable
9 terminal from the terminated speech communication
10 address.

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17. A center according to claim 13, further
2 comprising communication control means for switching
3 speech communication by said speech control means and
4 packet communication by said packet communication means
5 in accordance with switching operation of the radio
6 portable terminal.